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<input type="checkbox"/>	L16	L15 and 709/2\$\$.ccls. detect\$4 same (failure or inactive or broken) adj	33
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		detect\$4 same (failure or inactive or broken) adj	
<input type="checkbox"/>	L7	(gateway or element or client or device) and (load adj3 balanc\$) and recover\$4 and (monitor\$4 or manag\$4)	24
<input type="checkbox"/>	L6	L3 and 707/1\$\$.ccls.	0
<input type="checkbox"/>	L5	L3 and (714/4).ccls.	2
<input type="checkbox"/>	L4	L3 and 709/2\$4.ccls.	8
		detect\$4 same (failure or inactive or broken) adj	
<input type="checkbox"/>	L3	(gateway or element or client or device) and load balanc\$ and recover\$4 and (monitor\$4 or manag\$4)	23
		detect\$4 same (failure or inactive or broken) adj	
<input type="checkbox"/>	L2	(gateway or element or client or device) and load balanc\$ and recover\$4 and activit\$4 with2 (monitor\$4 or manag\$4)	0
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1 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue

Publisher: ACM Press

Full text available: [pdf\(5.33](#)

MB)

Additional Information: [full citation](#),

[citations](#), [inde](#)

The purpose of a distributed file system (DFS) is to allow users of physically separate computers to share data and storage resources by using a common file system. A distributed file system (DFS) is a collection of workstations and mainframes connected by a local or wide-area network. DFS is implemented as part of the operating system of each of the connected computers. The paper establishes a viewpoint that emphasizes the dispersed structure of the data and con...

2 File servers for network-based distributed systems

Liba Svobodova

December 1984 ACM Computing Surveys (CSUR), Volume 16 Issue

Publisher: ACM Press

Full text available: [pdf\(4.23](#)

MB)

Additional Information: [full citation](#),

[terms](#), [revie](#)

3 The evolution of Coda

◆ M. Satyanarayanan

◆ **May 2002 ACM Transactions on Computer Systems (TOCS)**, Volume 20, Number 2, ACM Press

Full text available: [pdf\(441.35 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

Failure-resilient, scalable, and secure read-write access to shared information over wireless and wired networks is a fundamental computing challenge. This paper describes how the Coda file system has evolved to meet this challenge through mechanisms for server replication, disconnected operation, adaptive user isolation-only transactions, translucent caching, and opportunistic exploitation of surrogates. For each ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, data access, data staging, disaster recovery, disconnected operation, failure, intermittent networks, isolation-only transactions, low-bandwidth networks, optimistic replica control, server replication, translucent cache manager, operation

4 Measuring ISP topologies with rocketfuel

◆ Neil Spring, Ratul Mahajan, David Wetherall

◆ **August 2002 ACM SIGCOMM Computer Communication Review , F**
conference on Applications, technologies, architectures and
computer communications SIGCOMM '02, Volume 32

Publisher: ACM Press

Full text available: [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

To date, realistic ISP topologies have not been accessible to the research that depends on topology on an uncertain footing. In this paper, we present techniques that have enabled us to directly measure router-level ISP topologies with orders of magnitude fewer traces compared to a brute-force, all-to-all approach. They include tables to focus the ...

5 Scalable and fault-tolerant support for variable bit-rate data in the enterprise

◆ Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm

◆ **November 2005 ACM Transactions on Storage (TOS)**, Volume 1 Issue 4

Publisher: ACM Press**Full text available:**  [pdf\(1.01 MB\)](#)**Additional Information:** [full citation, index terms](#)

We describe the design and implementation of the Exedra continuous media server and experimentally evaluate alternative resource management policies using it. Exedra was built to provide scalable and efficient support for media streams whose compression efficiency leads to reduced storage space requirements in comparison to constant bit-rate streams of equivalent quality. Alternative disk striping policies, and quality of service guarantees are also considered.

Keywords: Content distribution, multimedia compression**6** Facial modeling and animation Jörg Haber, Demetri Terzopoulos**August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04****Publisher:** ACM Press**Full text available:**  [pdf\(18.15 MB\)](#)**Additional Information:** [full citation, index terms](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. The prerequisite for facial modeling, data acquisition and processing is discussed in detail. Various methods of facial animation are presented and different approaches including parametric, physics-, and learning-based methods. State-of-the-art techniques such as motion capture, animation, mass-spring models, and neural networks are also presented.

7 Client-server computing Alok Sinha**July 1992 Communications of the ACM, Volume 35 Issue 7****Publisher:** ACM Press**Full text available:**  [pdf\(7.53 MB\)](#)**Additional Information:** [full citation, index terms, reviews](#)**Keywords:** client-server computing**8**Clustering intrusion detection alarms to support root cause analysis

 Klaus Julisch**November 2003 ACM Transactions on Information and System Security**
6 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(285.72 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

It is a well-known problem that intrusion detection systems overload the triggering thousands of alarms per day. This paper presents a new approach to detect alarms more efficiently. Central to this approach is the notion of a reason, which is referred to as the alarm's *root causes*. This paper observes that persistent root causes generally account for over 90% of the intrusion ...

Keywords: Intrusion detection, cluster analysis, data mining, false positives**9** Measuring ISP topologies with rocketfuel

Neil Spring, Ratul Mahajan, David Wetherall, Thomas Anderson

February 2004 IEEE/ACM Transactions on Networking (TON), Vol. 12, No. 1**Publisher:** IEEE PressFull text available:  [pdf\(732.86 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

To date, realistic ISP topologies have not been accessible to the research that depends on topology on an uncertain footing. In this paper, we present techniques that have enabled us to measure router-level ISP topologies with a small number of required traces compared to a brute-force, all-to-all approach. The magnitude without a significant loss in accuracy. They include the use of ...

Keywords: communication system operations and management, internet reliability**10** Level II technical support in a distributed computing environment Tim Leehane**September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on computer services SIGUCCS '96****Publisher:** ACM PressFull text available:  [pdf\(5.73 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

MB)

11 Level set and PDE methods for computer graphics

◆ David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, R
◆ **August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#)

Additional Information: [full citation](#),

Level set methods, an important class of partial differential equation (PDE) for dynamic surfaces implicitly as the level set (iso-surface) of a sampled, 3D function. This course begins with preparatory material that introduces the concept of level set methods and how they can be used to solve problems in computer graphics, geometric modeling and scientific visualization. The course will include the structure and behavior of several different types of differentiable level set equations ...

12 The design and implementation of a next generation name service for the Internet

◆ Venugopalan Ramasubramanian, Emin Gün Sirer

◆ **August 2004 ACM SIGCOMM Computer Communication Review , F**
conference on Applications, technologies, architecture and protocols for
computer communications SIGCOMM '04, Volume 34

Publisher: ACM Press

Full text available:  [pdf\(472.93 KB\)](#)

Additional Information: [full citation](#), [citings](#), [index](#)

Name services are critical for mapping logical resource names to physical locations in distributed systems. The Domain Name System (DNS) used on the Internet is vulnerable to denial of service attacks, and does not support fast updates. This paper describes a new name service architecture fundamentally different from the structure of the legacy DNS. This paper describes the design and implementation of the Cooperative Domain Name System (CoDoNS), a distributed name service that provides high lookup performance through a peer-to-peer network ...

Keywords: DNS, peer to peer, proactive caching

13 A layered naming architecture for the internet

◆ Hari Balakrishnan, Karthik Lakshminarayanan, Sylvia Ratnasamy, Scott Shenker, and Balaji Walfish

◆ **August 2004 ACM SIGCOMM Computer Communication Review , F**
conference on Applications, technologies, architecture and protocols for
computer communications SIGCOMM '04

computer communications SIGCOMM '04, Volume 34

Publisher: ACM Press

Full text available: [pdf\(110.95 KB\)](#) Additional Information: [full citation](#), [citations](#), [inde](#)

Currently the Internet has only one level of name resolution, DNS, which maps domain names into IP addresses. In this paper we borrow liberally from the idea that there should be three levels of name resolution: from user-level descriptions to service identifiers; from service identifiers to endpoint identifiers; and from endpoint identifiers to additional levels of naming and resolution (1) allow services and data to be located and (2) allow objects to be identified.

Keywords: distributed hash tables, global identifiers, internet architect resolution, naming

14 Distributed operating systems

 Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue

Publisher: ACM Press

Full text available: [pdf \(5.49 MB\)](#) Additional Information: [full citation](#), [citations](#), [inde](#)

Distributed operating systems have many aspects in common with central systems, but differ in certain ways. This paper is intended as an introduction to distributed systems, and especially to current university research about them. After a discussion of what a distributed operating system is and how it is distinguished from a computer system, some design issues are discussed. Then several examples of current research are presented, with some detail ...

15 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html \(2.78 KB\)](#) Additional Information: [full citation](#), [terms](#)

16 Fault-tolerance in air traffic control systems

Flaviu Cristian, Bob Dancey, Jon Dehn

◆ **August 1996 ACM Transactions on Computer Systems (TOCS), Vc**
Publisher: ACM Press

Full text available: [pdf\(264.57 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

The distributed real-time system services developed by Lockheed Martin group serve the infrastructure for a number of air traffic control systems: development or under development are the US Federal Aviation Administration's Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute and the Republic of China's Air Traffic Control Automated System (ATCA) intended to replace present ...

Keywords: exception handling, failure, failure classification, failure management, fault-tolerant systems, group communications, redundancy, server group, system architecture

17 An end-to-end approach to host mobility

◆ **Alex C. Snoeren, Hari Balakrishnan**

◆ **August 2000 Proceedings of the 6th annual international conference on mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available: [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

We present the design and implementation of an end-to-end architecture using dynamic updates to the Domain Name System (DNS) to track host connections are retained using secure and efficient connection migration. connections to seamlessly negotiate a change in endpoint IP addresses between party. Our architecture is secure—name updates are effected via the secure while TCP ...

18 A scalable content-addressable network

◆ **Sylvia Ratnasamy, Paul Francis, Mark Handley, Richard Karp, Scott Shenker**
August 2001 ACM SIGCOMM Computer Communication Review , F
conference on Applications, technologies, architecture and
computer communications SIGCOMM '01, Volume 31

Publisher: ACM Press

Full text available: [pdf\(155.64 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

Hash tables - which map "keys" onto "values" - are an essential building

systems. We believe a similar functionality would be equally valuable to In this paper, we introduce the concept of a Content-Addressable Network infrastructure that provides hash table-like functionality on Internet-like scalable, fault-tolerant and completely self-organizing, and we demonstrate robustness and low ...

19 Cases from the field: Field studies of computer system administration

◆ management tools and practices

Rob Barrett, Eser Kandogan, Paul P. Maglio, Eben M. Haber, Leila A. Takayama
November 2004 **Proceedings of the 2004 ACM conference on Computer-supported cooperative work CSCW '04**

Publisher: ACM Press

Full text available:  [pdf\(405.09 KB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

Computer system administrators are the unsung heroes of the information age. They are the ones who scenes to configure, maintain, and troubleshoot the computer infrastructure that powers modern life. However, little can be found in the literature about the practices of these highly specialized computer users. We conducted a series of field studies in data centers, observing organizations, work practices, tools, and problems system administrators ...

Keywords: collaboration, command-line interfaces, ethnography, situation, administration

20 Scale and performance in a distributed file system

◆ John H. Howard, Michael L. Kazar, Sherri G. Menees, David A. Nichols, Michael F. Sidebotham, Michael J. West

February 1988 **ACM Transactions on Computer Systems (TOCS)**

Publisher: ACM Press

Full text available:  [pdf\(2.38 MB\)](#) Additional Information: [full citation](#), [citations](#), [index](#)

The Andrew File System is a location-transparent distributed file system that runs on more than 5000 workstations at Carnegie Mellon University. Large scale distributed file systems complicate system operation. In this paper we present observations of the system's implementation, motivate changes in the areas of cache validation, server location, memory translation, and low-level storage representation, and quantitatively determine how well the system scales to scale gracefully. We ...

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1 File servers for network-based distributed systems

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue

Publisher: ACM Press

Full text available: [pdf\(4.23 MB\)](#)

Additional Information

2 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#)

Additional Information

The papers in this special issue were compiled from responses to the announcement posted over the ARPAnet. The interest being shown in this area is reflected in the fact that over 100 papers were received over the computer network.

3 Clustering intrusion detection alarms to support root cause analysis

Klaus Julisch

November 2003 **ACM Transactions on Information and System Security**

Publisher: ACM Press

Full text available:  pdf(285.72 KB)

Additional Information

Keywords: Intrusion detection, cluster analysis, data mining, false pos

4 Distributed file systems: concepts and examples

 Eliezer Levy, Abraham Silberschatz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 4

Publisher: ACM Press

Full text available:  pdf(5.33 MB)

Additional Information

The purpose of a distributed file system (DFS) is to allow users of physical common file system. A typical configuration for a DFS is a collection of DFS is implemented as part of the operating system of each of the computers in the dispersed structure and decentralization of both data and control ...

5 Risks to the public: Risks to the Public

 Peter G. Neumann

March 2005 ACM SIGSOFT Software Engineering Notes, Volume 33, Number 3

Publisher: ACM Press

Full text available: pdf(99.08 KB)

Additional Information

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the Risks Forum) and contributions by others, as indicated. Opinions expressed are individual and do not necessarily reflect the views of the editors. The Risks Forum is designed to address problems relating to software, hardware, people, and other circumstances that affect the use of computers. The Risks Forum is a moderated discussion group that includes pointers to items in the online Risks Forum: (R i j) denotes RISKS issue number, item number, and page number.

6 The evolution of Coda

M. Satyanarayanan

May 2002 ACM Transactions on Computer Systems (TOCS), Vol. 20, No. 2, May 2002, pp. 133–164, 22 pages.

Publisher: ACM Press

Full text available: pdf(441.35 KB)

Additional Information

Failure-resilient, scalable, and secure read-write access to shared information is a fundamental computing challenge. In this article, we describe how the CloudBees team has addressed this challenge through the development of mechanisms for server replication, disconnected operation, translucent caching, and opportunistic exploitation of hardware surrogates.

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, operation, failure, high availability, hoarding, intermittent networks, isochronous, optimistic replica control, server replication, translucent cache manager

7 A probe-based monitoring scheme for an object-oriented distributed system

Partha Dasgupta

June 1986 **ACM SIGPLAN Notices , Conference proceedings on OOPSLA '86**, Volume 21 Issue 11

Publisher: ACM Press

Full text available:  [pdf\(762.64 KB\)](#)

Additional Information

8 An Approach to Preserving Sufficient Correctness in Open Resources

Orna Raz, Mary Shaw

November 2000 **Proceedings of the 10th International Workshop**

Publisher: IEEE Computer Society

Full text available:  [pdf\(359.58 KB\)](#) 

Additional Information

Most software that most people use most of the time needs only moderate assurance. In contrast, software, where the severe consequences of failure justify substantial investment, must be highly reliable. Unlike high-assurance software, everyday software has received only meager attention concerning how to achieve sufficient correctness.

Keywords: Medium-assurance software, everyday software, fitness for use, software homeostasis, distributed component-based software

9 Fault-tolerance in air traffic control systems

Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14, Number 3

Publisher: ACM Press

Full text available:  [pdf\(264.57 KB\)](#)

Additional Information

The distributed real-time system services developed by Lockheed Martin for the air traffic control systems. Either completed development or under development are the Data Replacement (DSR) system, the UK Civil Aviation Authority's New Enhanced Traffic Collision Avoidance System (ATCAS). These systems are intended to replace prior systems.

Keywords: exception handling, failure, failure classification, failure management, redundancy, server group, software robustness, system architecture

10 Level set and PDE methods for computer graphics

◆ David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, F
◆ **August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(17.07 MB\)](#)

Additional Information

Level set methods, an important class of partial differential equation (PDE) for surface) of a sampled, evolving nD function. The course begins with pre-equations to solve problems in computer graphics, geometric modeling and different types of differential equations, e.g. the level set eq ...

11 Cluster-based scalable network services

◆ Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul G
◆ **October 1997 ACM SIGOPS Operating Systems Review , Proceedings of the principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.42 MB\)](#)

Additional Information

12 Deployment experience: Design and deployment of industrial sensing and actuation

◆ **sea**
Lakshman Krishnamurthy, Robert Adler, Phil Buonadonna, Jasmeet Chhatwal, November 2005 **Proceedings of the 3rd international conference on Sensor Networks, Sensor Systems, and Applications (SNSA)**

Publisher: ACM Press

Full text available: [pdf\(677.48 KB\)](#)

Additional Information

Sensing technology is a cornerstone for many industrial applications. Manufacturing rooms, require sensors to ensure product quality and efficient and safe equipment maintenance, in which vibration signatures are gathered to perform surveys, we develop a general architecture for this class of industrial applications.

Keywords: embedded hardware design, industrial applications of sensing and actuation

13 The design and implementation of a next generation name service

◆ Venugopalan Ramasubramanian, Emin Gün Sirer
◆ August 2004 **ACM SIGCOMM Computer Communication Review , architectures, and protocols for computer communication**
Publisher: ACM Press

Full text available: [pdf\(472.93 KB\)](#)

Additional Information

Name services are critical for mapping logical resource names to physical (DNS) used on the Internet, however, is slow, vulnerable to denial of service, and fundamentally from the structure of the legacy DNS. This paper describes CoDoNS, a novel name service, which provides high lookup performance.

Keywords: DNS, peer to peer, proactive caching

14 Illustrative risks to the public in the use of computer systems and networks

◆ Peter G. Neumann
◆ January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 15, Number 1
Publisher: ACM Press

Full text available: [pdf\(2.54 MB\)](#)

Additional Information

15 Practical byzantine fault tolerance and proactive recovery

◆ Miguel Castro, Barbara Liskov
◆ November 2002 **ACM Transactions on Computer Systems (TOCS)**
Publisher: ACM Press

Full text available: [pdf\(1.63 MB\)](#)

Additional Information

Our growing reliance on online services accessible on the Internet demands high availability and reliability. These requirements are often violated by system interruptions. Software bugs, operator mistakes, and malicious attacks can all cause a system to exhibit faulty behavior, that is, Byzantine faults. This article describes a new replicated data structure that can tolerate Byzantine faults. BFT can be used in practice to implement reliable replicated data structures.

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery

16 Computing curricula 2001

◆ September 2001 **Journal on Educational Resources in Computing**
Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html](#)

Additional Information

(2.78 KB)

17 Distributed transactions for reliable systems

◆ Alfred Z. Spector, Dean Daniels, Daniel Duchamp, Jeffrey L. Eppinger, Rai
◆ December 1985 **ACM SIGOPS Operating Systems Review , Proce**
principles SOSP '85, Volume 19 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.44 MB)

Additional Informati

18 Level II technical support in a distributed computing environment

◆ Tim Leehane
◆ September 1996 **Proceedings of the 24th annual ACM SIGUCCS**

Publisher: ACM Press

Full text available:  pdf(5.73 MB)

Additional Informati

19 Experience with transactions in QuickSilver

◆ Frank Schmuck, Jim Wylie
◆ September 1991 **ACM SIGOPS Operating Systems Review , Proce**
principles SOSP '91, Volume 25 Issue 5

Publisher: ACM Press

Full text available:  pdf(1.66 MB)

Additional Informati

All programs in the QuickSilver distributed system behave atomically w
for *transactions* provides the framework required to support this, as we
normal process termination. This paper evaluates the use of transaction
some of the lessons learned from our experience with a complet ...

20 Distributed operating systems

◆ Andrew S. Tanenbaum, Robbert Van Renesse
◆ December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue

Publisher: ACM Press

Full text available:  pdf(5.49 MB)

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Distributed operating systems have many aspects in common with cent
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System control structure of the IBM eServer z900

Shown on the left in Figure 8 is the floorplan of a z900 **server** with locations of cages and ... it triggers the CC **reassignment** function3 for that cage. ...

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